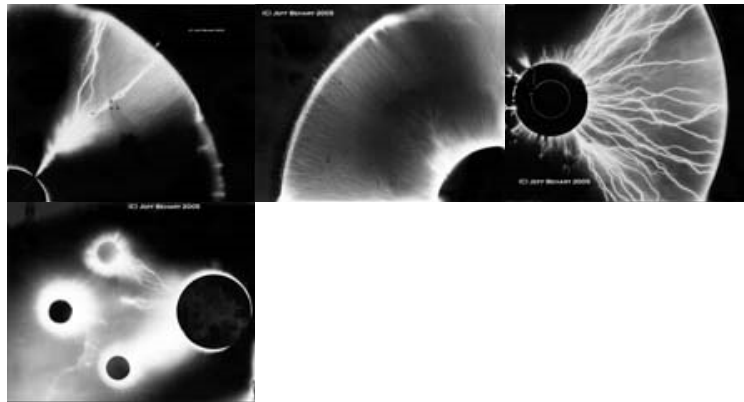
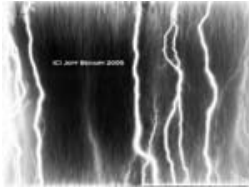




Updates from 2009

The Turn Of The Century Electrotherapy Museum Forgotten Tesla Technologies 2009

<http://www.electrotherapymuseum.com>



A Series Of High Resolution Electrographs recreating Tesla's Phantom Streams

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Experimental Pancake Coil for producing Brush Discharges

4" Induction Apparatus Powering A Tesla Coil

4" Capacity Induction Apparatus

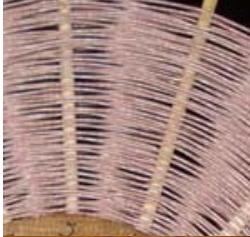
A Simple Design For a 4 - 6" Induction Coil



A New Design Of Compact Induction Coil



A New Design Of Induction Coil



Making Spiderweb, Honeycomb, and Pancake Radio Coils



**Concept For Tesla Ignition System
(based on James Seeley and Nikola Tesla's work)**



A New Design Induction Coil



**Radio Inductance-Induction Coil Powered By a Low Voltage Tesla Coil Circuit
To Power A High Voltage Tesla Coil**



**A Compact 1.5KW Tesla Coil (36" tall x 9" diameter total)
24" Discharges**



**Low Voltage Spark Gap Tesla Coil Operated from 240VAC Directly
8.5 mfd Motor Start Capacitor, Micrometer Spark Gap...**

**Low Voltage Spark Gap Experiments - Induction Coils Experiments
Tesla Coil powered Tesla Coil Experiments**



FIRE! Awesome testing of my latest invention: the *Super MOT*.



Super MOT - Turning scrap microwave transformers into Tesla Coil transformers...



Recent Spark Gaps...



Disassembling an Unpotted Neon Transformer!



Unpotting a Neon Transformer!



Halloween Tesla Coil - Housed in modern Acrylic and Polycarbonate



New Slim and Trim 3-Series Self-Cooled Spark Gaps



New Spark Gaps



A Modern Steam Punk Tesla Coil In Vintage Style



**Striations from Crookes Tube
Hardening a vacuum with a Tesla Coil**



A coffee table of gadgets to demonstrate for some Ukraine visitors



**Continued Pancake Coils for Phantom Streams,
Thanks to Brian Foley!**



**Tesla / Oudin Coil Tests: 250 T Secondary (quadruple silk covered wire)
4.5" x 9.75" Secondary - 7500V 60mA NST Powered (.006 mfd)**



**Inside Out Tesla Coil:
Primary Coil on the inside,
Secondary on the outside.**



**Tesla Impedance Coil
"Tesla Hairpin Circuit"**



Operation Photos of Point - Plane Rectifier Pancake Coil System

**YouTube video documenting Phantom Streams
<http://www.youtube.com/watch?v=-KaT6XrqRL4>**



Using an Oscilloscope Tube to show Phantom Streams



30W Pancake Tesla Coil Producing Phantom Streams

30W Tesla Coil Tuner



Snappy White Sparks and Hot Ribbon Sparks



4 Kilowatt Pancake Coil Tests



More Quenched Spark Gap Experiments:
3/4" Diameter Tungsten Dual Hydrocarbon Quenched Spark Gap
Plate Gap with paper washers



Military Quenched Spark Gap Tests with 9" 500T Pancake Coil

YouTube video: <http://www.youtube.com/watch?v=0MwQovsPtNo>



Flaming Arc Tests with Military Quenched Gap



Unipolar / Single Pole Kinraide Coil, Stained



Unipolar / Single Pole Kinraide Coil



**Steam Punk Violet Rays In Action; Inside - Out Violet Ray Coil
(Miniature High Frequency Induction Coil)**



**Steampunk Violet Ray Resonator: My interpretation of what a Violet Ray
would have looked like 20 years earlier...**



More Steampunk Violet Ray Handles



Steampunk Violet Ray Double Resonator



Making a replacement Violet Ray Coil...



Experimental Tungsten Cam Spark Gap



Micrometer Spark Gap - Accurate to 1 / 10,000" and less!



Tom Vale's Mini Tesla Coil



**6" Pancake Tesla Coil Operated from Power Supply built on an Edison Record;
6" Pancake Tesla Coil Operated by Power Supply housed in 3" x 4" x 5" Cigar Box
(3-4" Sparks, only 16.5 Watts Of Power...?!)**



Construction and Experimentation with dual-wire Tesla Secondary Coil



**Baby Tesla Coil, 1.9" x 8.875".
1KW Input Power**



Micrometer Spark Gap Inspired By Thomas Burton Kinraide



Interesting Conical Micrometer Spark Gap - Tesla Coil power supply built in a cigar box!



Behary Tesla Powered Static Machine Details

YouTube Video:

<http://www.youtube.com/watch?v=2gkVyD-L13c>



YouTube Electrotherapy Museum Video Part 1 of 3

YouTube Electrotherapy Museum Video Part 2 of 3

YouTube Electrotherapy Museum Video Part 3 of 3



YouTube 8 minute 22 second Video: The Quest For Kinraide
(Details of the earliest surviving Tesla Coils from 1897-1899)

<http://www.youtube.com/watch?v=RcfK0K6c3qs>



Experimental Portable Tesla Apparatus: Combination d'Arsonval
(Diathermy) / Tesla Pancake Coil

YouTube Video: <http://www.youtube.com/watch?v=iyY4WgSYIKI>



Featured Tesla Coil: 1650V 10mA coil producing cold sparks



Featured Tesla Coil: 1650V 10mA coil producing hot sparks



Unpotting And Measuring Master Violet Ray Coils



Reproduction Kinraide Static Machine
Tesla Coil Rectifier, uses Point - Plane electrodes



Protocakes: Nine Pancake Coils for Studying Electrical Discharges

1. **Introduction**
2. **Construction Photos**
3. **Testing Photos / YouTube Video**



Time Lapse Photos of Kinraide Coils: Phantom Streams and Brush Discharges

9" Pancake Coil with 9" Discharges

03 June 2009 - Tesla Coil / d'Arsonval Fireworks or Spark-lers

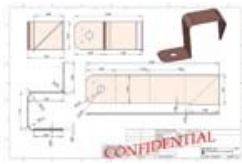
You Tube video: <http://www.youtube.com/watch?v=JcAxe7tNbj0>

YouTube Video: 12" Discharges from an 8.25" Diameter Pancake Coil

**Mesh Fiberglass Tape Reinforced Wax Pancake Coils
Lower Frequency Flat Spiral Pancake Coils. Initial Testing.**

Operating a Tesla Coil from low voltage Sinusoidal Outputs of an A.S. Aloe Diathermy Machine (less than 25 volts)

**Non-Inductive Leads to Tesla Pancake Coils;
Tesla Pancake-Coil Powered Static Machine**



**The Real Use For Brass Bed Balls
Pancake Coil Experiments**



Tar and Paraffin Wax insulated Pancake Coil



**Completed Bipolar Tesla Pancake Coil - 9kV 120mA, .004 mfd, 4-series
Tungsten Spark Gap**



9kV 120mA Twin Pancake Tesla Coils, 9" Flat Spiral Pancakes (26 AWG)



Experiments with Lichtenberg Figures On Wax / Black Tar Composition



**330T Pancake Coil For Producing Positive Phantom Streams with
a negatively charged ball terminal**



**6" Pancake Coil for Producing Negative Streamers terminating in Positive
Streamers
(Phantom Streams)**



High Frequency Induction Coil / Bipolar Pancake Coil



Experimental Adjustable Spark Gap - Tungsten + Hydrocarbon Gas



Low Voltage DC Powered Tesla Coil, using a Relay and an Electromagnet



**Turpentine / Poulsen Spark Gap with 500T Pancake Coil
Powered by Microwave Oven Transformer**



Turpentine / Poulsen Spark Gap - Details of 2nd Day Tests



Poulsen Arc Hydrocarbon Spark Gap - Copper-Carbon, Turpentine powered



Cip's Second Tesla Coil



**Happy New Years 2009:
Twelve Foot Long Carbide Cannon**

A Hint of 2009



Tesla Coil Powered By A Contactor / Relay



Hydrogen / Hydrocarbon Spark Gap



Cip's First Tesla Coil



Poulsen / Duddell Singing Arc Powered Tesla Coil - Initial Experiments



The Creation Of A Tesla Lecture Coil:

1. Universal Tesla High Frequency Lecture Coil
2. Tesla Lecture High Frequency Induction Coil - 6" Spark Capacity
3. Baby Bipolar Tesla Pancake Coils
4. Making a small 4" Pancake Coil, 1000 turn secondary coil...



Kinraide Coil Reproduction, with Water-Cooled Copper Plate Spark Gap



Kinraide Coil Reproduction, Varnished, with movie.



